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NOTICE OF ALLOWANCE AND FEE(S) DUE

24737

7590

09/16/2010

PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510 EXAMINER

ANDERSON, GUY G

ART UNIT PAPER NUMBER

2883 DATE MAILED: 09/16/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/573.084	03/23/2006	Marcellinus P.C.M. Krijn	GB030164	6994

TITLE OF INVENTION: BACKLIGHT FOR 3D DISPLAY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/16/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450 (571)-273-2885 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 24737 7590 09/16/2010 Certificate of Mailing or Transmission PHILIPS INTELLECTUAL PROPERTY & STANDARDS I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510 (Depositor's name (Signature (Date APPLICATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. FILING DATE 10/573,084 03/23/2006 Marcellinus P.C.M. Krijn GB030164 6994 TITLE OF INVENTION: BACKLIGHT FOR 3D DISPLAY APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1510 \$300 \$0 \$1810 12/16/2010 **EXAMINER** ART UNIT CLASS-SUBCLASS ANDERSON, GUY G 2883 349-065000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number ______ (enclose an extra copy of this fo Advance Order - # of Copies _ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/573,084	03/23/2006	Marcellinus P.C.M. Krijn	GB030164	6994
24737 75	90 09/16/2010		EXAMINER	
PHILIPS INTEL	LECTUAL PROPER	ANDERSON, GUY G		
P.O. BOX 3001			ART UNIT	PAPER NUMBER
BRIARCLIFF MA	NOR, NY 10510		2883	
			DATE MAILED: 09/16/2010	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 208 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 208 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
Notice of Allowability	10/573,084 Examiner	KRIJN ET AL. Art Unit		
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	Guy G. Anderson	2883		
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	n this application. If not included unication will be mailed in due cour	rse. THIS	
1. This communication is responsive to an RCE received 9/9.	<u>/2010</u> .			
2. The allowed claim(s) is/are <u>21,22,24-31 and 33-43</u> .				
 3. Acknowledgment is made of a claim for foreign priority ungle a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		or (f).		
2. Certified copies of the priority documents have	e been received in Applicati	on No		
3. Copies of the certified copies of the priority do	cuments have been receive	ed in this national stage application	from the	
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the require	ments:	
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			CE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Revie	w (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	,			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			k) of	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			the	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 Notice of I	oformal Patant Application		
 Image: Notice of References Cited (PTO-692) Image: Discrete of Draftperson's Patent Drawing Review (PTO-948) 		nformal Patent Application Summary (PTO-413),		
 Information Disclosure Statements (PTO/SB/08), 	Paper No	./Mail Date s Amendment/Comment		
Paper No./Mail Date <u>9/9/2010</u>				
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 		s Statement of Reasons for Allowan	ce	
	9. Other			
	/BRIAN M. HE for Mark Robin	ALY/ son, SPE of Art Unit 2883		

Application/Control Number: 10/573,084 Page 2

Art Unit: 2883

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1.1 A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 9/9/2010 has been entered.

Information Disclosure Statement

2.1 The information disclosure statement (IDS) submitted on 9/9/2010 was filed after the mailing date of the Notice of Allowance on 6/9/2010. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Allowable Subject Matter

3.1 The following is an examiner's statement of reasons for allowance:

Claims 21-22, 24-31, 33-43 are allowed for the following reason/s:

The instant application is deemed to be directed towards a non-obvious improvement over the invention patented in U.S. Patent No. 6379017 to Nakabayashi or U.S. Patent No. 5897184 to Eichenlaub, or U.S. Patent No. 6474827 to Shinohara, or U.S. Patent No. 7265800 to Jagt or U.S. Patent No. 6996296 to Bastiaansen.

Application/Control Number: 10/573,084

Art Unit: 2883

Page 3

- 3.2 Claim 21 is allowed because the prior art of record, taken alone or in combination, fails to disclose or render obvious a three dimensional display device comprising a backlight, the backlight comprising a planar light guide through which light is guided transversely by internal reflection, wherein regions of the light guide are configured to direct light propagating within the light guide by internal reflection, out of a face of the light guide without passing through the light guide after being directed by the regions so as to form a plurality of line light sources, the regions comprising grooves filled with a material having a higher refractive index than the light guide, wherein the material which fills the grooves is formed as a layer extending across an upper surface of the light guide, the thickness of the layer being less than a period of the grooves.
 - While Nakabayashi discloses material that is used to fill the grooves, the material is of a lower refractive index than the material comprising the light guides. Further, Nakabayashi is silent with regards to the depth of the groove filling material. Further, while Jagt discloses a layer of material filling the grooves, it is also silent as to the depth of the material. Bastiaansen discloses that such dimensions as the periodicity/pitch of grooves and the depth can affect the polarization of the transmitted light, but is also silent as to the depth of the material filling the grooves.
- 3.3 Claims 22, 24-31, 33-43 depend either directly or indirectly on Claim 21 and are thus also allowed.
- 3.4 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Guy G. Anderson whose telephone number is 571.272.8045. The examiner can normally be reached on Tuesday-Saturday 1400-2200.

Application/Control Number: 10/573,084 Page 4

Art Unit: 2883

3.5 If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mark Robinson can be reached on 571.272.2319. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

3.6 Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO

Customer Service Representative or access to the automated information system, call

800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Guy G Anderson/ Examiner, Art Unit 2883 /BRIAN M. HEALY/ For Mark Robinson, SPE of Art Unit 2883